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**From:** Lloyd Winchell [LWinchell@brwncaled.com]  
**Sent:** 6/7/2020 8:15:51 PM  
**To:** Ryan, Jeff [Ryan.Jeff@epa.gov]; Martha Wells [V] [MWells1@BrwnCald.com]; John J. Ross [JRoss@BrwnCald.com]  
**Subject:** RE: SSI PFAS project  
**Attachments:** 2018\_NHDES\_ORD Study.pdf

Hi Jeff,

We downloaded the attached report from the NHDES site. In it, the modified method 5 PFAS analyses are noted to be discussed in a future report by EPA. Has this report been released yet?

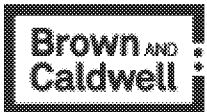
Also, do you have any information on the temperature conditions in the ovens during stack sampling? The report indicate the temperatures are to be recorded.

Thanks,

Lloyd

**Lloyd Winchell**

Associate, Environmental Engineer  
Brown and Caldwell | Saint Paul, MN  
LWinchell@brwncaled.com  
T 651.468.2051 | C 651.212.0526



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**From:** Ryan, Jeff <Ryan.Jeff@epa.gov>  
**Sent:** Friday, June 05, 2020 5:51 AM  
**To:** Martha Wells [V] <MWells1@BrwnCald.com>; Lloyd Winchell <LWinchell@brwncaled.com>; John J. Ross <JRoss@BrwnCald.com>  
**Subject:** RE: SSI PFAS project

Hi Martha! Yes, early on the east coast has it's advantages.

I still think we won't be where we need to be and at that point I'm more comfortable offering our unique NTA capabilities. One option, when we are ready, is to perform TOF analyses to compare to yours. I will say that we will be interested in working with actual samples once we figure things out.

I will also have to clear it with my management to get permission. That's not always certain either.

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**From:** Martha Wells [V] <MWells1@BrwnCald.com>  
**Sent:** Friday, June 05, 2020 6:40 AM  
**To:** Ryan, Jeff <Ryan.Jeff@epa.gov>; Lloyd Winchell <LWinchell@brwncaled.com>; John J. Ross <JRoss@BrwnCald.com>  
**Subject:** RE: SSI PFAS project

Jeff—

If funded, this project will not begin until Jan 2021. Will that make any difference?

Lloyd can comment, too. I just happen to be in the Eastern time zone today and already up and at 'em.

MJMW

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**From:** Ryan, Jeff <[Ryan.Jeff@epa.gov](mailto:Ryan.Jeff@epa.gov)>

**Sent:** Friday, June 5, 2020 5:36 AM

**To:** Lloyd Winchell <[LWinchell@brwncald.com](mailto:LWinchell@brwncald.com)>; Martha Wells [V] <[MWells1@BrwnCald.com](mailto:MWells1@BrwnCald.com)>; John J. Ross <[JRoss@BrwnCald.com](mailto:JRoss@BrwnCald.com)>

**Subject:** RE: SSI PFAS project

Good morning Lloyd

I would like to say yes, but we're not even up and running yet. I have the IC install next week as a matter of fact. The combustion unit install is delayed by Cosa's inability to travel. And then I understand there's a steep learning curve.

If the timing makes sense, I could see that happening, but I think that will still be difficult on my end.

Jeff

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**From:** Lloyd Winchell <[LWinchell@brwncald.com](mailto:LWinchell@brwncald.com)>

**Sent:** Thursday, June 04, 2020 5:00 PM

**To:** Ryan, Jeff <[Ryan.Jeff@epa.gov](mailto:Ryan.Jeff@epa.gov)>; Martha Wells [V] <[MWells1@BrwnCald.com](mailto:MWells1@BrwnCald.com)>; John J. Ross <[JRoss@BrwnCald.com](mailto:JRoss@BrwnCald.com)>

**Subject:** RE: SSI PFAS project

Hi Jeff,

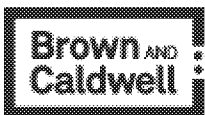
Hope you're well. As I recall you mentioned that you were in the process of setting up a combustion IC that might be used for TOF analysis. Would that be something the EPA would consider offering to analyze some of our extracts? Similar to your proposition for the NTA.

Thanks,

Lloyd

**Lloyd Winchell**

Associate, Environmental Engineer  
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**From:** Ryan, Jeff <[Ryan.Jeff@epa.gov](mailto:Ryan.Jeff@epa.gov)>

**Sent:** Wednesday, May 20, 2020 7:24 AM

**To:** Martha Wells [V] <[MWells1@BrwnCald.com](mailto:MWells1@BrwnCald.com)>; John J. Ross <[JRoss@BrwnCald.com](mailto:JRoss@BrwnCald.com)>

**Cc:** Lloyd Winchell <[LWinchell@brwncald.com](mailto:LWinchell@brwncald.com)>

**Subject:** RE: SSI PFAS project

Thanks Martha!

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**From:** Martha Wells [V] <MWells1@BrwnCald.com>  
**Sent:** Wednesday, May 20, 2020 8:00 AM  
**To:** Ryan, Jeff <Ryan.Jeff@epa.gov>; John J. Ross <JRoss@BrwnCald.com>  
**Cc:** Lloyd Winchell <LWinchell@brwncald.com>  
**Subject:** RE: SSI PFAS project

Good morning Jeff. Lloyd has been working on that, so I'll let him get back with you.

MJMW

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**From:** Ryan, Jeff <Ryan.Jeff@epa.gov>  
**Sent:** Wednesday, May 20, 2020 6:58 AM  
**To:** Martha Wells [V] <MWells1@BrwnCald.com>; John J. Ross <JRoss@BrwnCald.com>  
**Cc:** Lloyd Winchell <LWinchell@brwncald.com>  
**Subject:** RE: SSI PFAS project

Hi Martha

I've been thinking about TOF (we're scheduling our combustion-IC install) and I recall you mentioning that Eurofins in Australia is providing that analysis commercially. Do you have a contact you could provide? Thanks!

Jeff

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**From:** Martha Wells [V] <MWells1@BrwnCald.com>  
**Sent:** Monday, May 11, 2020 1:53 PM  
**To:** Ryan, Jeff <Ryan.Jeff@epa.gov>; John J. Ross <JRoss@BrwnCald.com>  
**Cc:** Lloyd Winchell <LWinchell@brwncald.com>  
**Subject:** RE: SSI PFAS project

Happens to all of us!

MJMW

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**From:** Ryan, Jeff <Ryan.Jeff@epa.gov>  
**Sent:** Monday, May 11, 2020 12:41 PM  
**To:** John J. Ross <JRoss@BrwnCald.com>; Martha Wells [V] <MWells1@BrwnCald.com>  
**Cc:** Lloyd Winchell <LWinchell@brwncald.com>  
**Subject:** RE: SSI PFAS project

Sorry about that. Seems I have several messages that I just didn't hit send on ...

Jeff

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**From:** John J. Ross <JRoss@BrwnCald.com>  
**Sent:** Monday, May 11, 2020 1:19 PM  
**To:** Martha Wells [V] <MWells1@BrwnCald.com>; Ryan, Jeff <Ryan.Jeff@epa.gov>  
**Cc:** Lloyd Winchell <LWinchell@brwncald.com>  
**Subject:** RE: SSI PFAS project

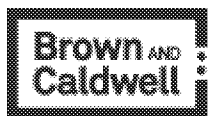
Hi Jeff,

I wanted to follow up on the ORD report you mentioned that was prepared for NHDES and discussed thermal regrowth conditions. Would you send us a link to the report? I've taken another look through the NHDES [webpage](#) and see eight ORD reports listed but I don't see any that mention a discussion on thermal treatment/transformation.

Thanks,  
John

**John Ross, PE**

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Professional Registration in Specific States

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**From:** Martha Wells [V] <[MWells1@BrwnCald.com](mailto:MWells1@BrwnCald.com)>  
**Sent:** Thursday, May 07, 2020 3:44 PM  
**To:** [Ryan.Jeff@epa.gov](mailto:Ryan.Jeff@epa.gov)  
**Cc:** Lloyd Winchell <[LWinchell@brwncald.com](mailto:LWinchell@brwncald.com)>; John J. Ross <[JRoss@BrwnCald.com](mailto:JRoss@BrwnCald.com)>  
**Subject:** SSI PFAS project

Jeff—

I enjoyed talking with you today about our mutual PFAS interests and I hope we can collaborate on this important environmental issue.

My NTA experience has been with licit and illicit drugs and eicosanoids in fish using QToF.

My contact information is pasted below. I wear several hats!

Martha J.M. Wells, Ph.D.  
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Emeritus Professor of Chemistry, Tennessee Technological University, [mimwells@tntech.edu](mailto:mimwells@tntech.edu)  
American Chemical Society Fellow, Class of 2017  
Chemical Consultant to Brown and Caldwell, [MWells1@brwncald.com](mailto:MWells1@brwncald.com)  
931-979-6808  
<http://scholar.google.com/citations?user=nGH9HBkAAAAJ>

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